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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,509	03/25/2004	Koji Ishii	040155	5520 -
	7590 11/01/2007 ITOS & HANSON, LLP		EXAMINER	
1420 K Street, N.W. Suite 400			MAKIYA, DAVID J	
WASHINGTO	N, DC 20005		ART UNIT	PAPER NUMBER
			2885	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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· ·	Application No.	Applicant(s)	1
	10/808,509	ISHII ET AL.	
Office Action Summary	Examiner	Art Unit	
	David J. Makiya	2885	
The MAILING DATE of this communicat Period for Reply	ion appears on the cover sheet w	ith the correspondence address -	•
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNITY CFR 1.136(a). In no event, however, may a ation. The property of t	CATION. reply be timely filed NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed o 2a) This action is FINAL. 2b) 3) Since this application is in condition for 	This action is non-final.	ters, prosecution as to the merits	is
closed in accordance with the practice u	under <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☑ Claim(s) 1 and 3 is/are pending in the a 4a) Of the above claim(s) is/are v 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1 and 3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the E. 10)☑ The drawing(s) filed on 25 March 2004 i Applicant may not request that any objection Replacement drawing sheet(s) including the 11)☐ The oath or declaration is objected to by	s/are: a)⊠ accepted or b)□ ot n to the drawing(s) be held in abeya correction is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in a he priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	.948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 3 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for use of a substrate, first electrode, electroluminescent material and second electrode, does not reasonably provide enablement for an emitting layer printed directly on the first electrode, and a second electrode formed directly on the emitting layer without the use of an insulating or dielectric layer as argued. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The Tang et al. (US Patent 4,769,292) reference teaches "eventually a voltage level is required that cannot be conveniently supplied by the EL device driving circuitry or which produces a field gradient (volts/cm) exceeding the dielectric breakdown strength of the layers separating the electrodes, resulting in a catastrophic failure of the EL device" (Tang et al.; Column 3, Line 65–Column 4, Line 2) so "the organic luminescent medium performs is to provide a dielectric barrier to prevent shorting of the electrodes on electrical biasing of the EL device" (Tang et al.; Column 39, Lines 50-68). Hay et al. (US Patent 5,697,322) teaches that "A thick-film EL lamp is essentially a capacitor having a dielectric layer between two conductive electrodes, one of which is transparent" (Column 1, Lines 35-47). Krafcik et al. (US Patent 6,465,951) teaches "Portions of conductive traces 36 that are not connection points to conductive pads 41a of lamps 40 are

generally covered with a dielectric layer to provide electrical isolation, reduce silver migration, and to provide moisture protection" (Column 5, Lines 35-57). Since the applicant does not address the use or removal of an insulating or dielectric layer in the original specification, the specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention could functionally operate. Claims will be interpreted as best understood.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al. (US Patent 4,769,292) in view of Krafcik et al. (US Patent 6,465,951).

With respect to claim 1, Tang et al. teaches a dial plate for use in an instrument panel of a vehicle, having a segment display area including indexes, consisting of laminated patterns of light emitting elements (114, 116), the laminated patterns being formed on a substrate (Figure 1), composed of a glass or a resin (Column 39, Lines 44-50), by laminating electroluminescent materials through printing (Column 39, Lines 25-43), a first electrode 102 printed directly on the substrate, an emitting layer 106 printed directly on the first electrode, and a second electrode 104 formed directly on the emitting layer (Figure 1), and having a specific design corresponding to external data (Column 39, Lines 44-50). However, Tang et al. fails to teach the device being a

dial plate for use in an instrument panel. Krafcik et al. teaches a dial plate for use in an instrument panel of a vehicle, having a segment display area including indexes (84a-87a and 89a-94a), comprising a substrate 40, laminating electroluminescent materials 46 through printing, a first electrode 44 printed directly on the substrate, and a second electrode 50, and having a specific design corresponding to external data (Figure 7). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the use of the device of Tang et al. to include being a dial plate for use in an instrument panel from the teachings of Krafcik et al. because "providing lamps for control panels such as the instrumentation mount 82 described above in conjunction with FIG. 7, the flexible substrate manufacturing approach is highly desirable, for being less expensive than forming rigid members" (Krafcik et al.; Column 9, Lines 30-57).

With respect to claim 3, Tang et al. teaches a method for producing a dial plate for use in an instrument panel of a vehicle, having a segment display area including indexes, comprising the steps of receiving external data (Column 39, Lines 44-50); and forming laminated patterns (Figure 1) on a substrate (Column 39, Lines 44-50) by laminating electroluminescent materials (114, 116) through printing (Column 39, Lines 25-43), by printing a first electrode 102 directly on the substrate, an emitting layer 106 directly on the first electrode, and a second electrode 104 directly on the emitting layer (Figure 1), whereby the laminated patterns have a specific design corresponding to the external data (Column 39, Lines 44-50). However, Tang et al. fails to teach the method being for a dial plate for use in an instrument panel. Krafcik et al. teaches a method for producing a dial plate for use in an instrument panel of a vehicle, having a segment display area including indexes (84a-87a and 89a-94a), comprising a substrate 40, laminating

electroluminescent materials 46 through printing, a first electrode 44 printed directly on the substrate, and a second electrode 50, and having a specific design corresponding to external data (Figure 7). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the use of the method of Tang et al. to include being a dial plate for use in an instrument panel from the teachings of Krafcik et al. because "providing lamps for control panels such as the instrumentation mount 82 described above in conjunction with FIG. 7, the flexible substrate manufacturing approach is highly desirable, for being less expensive than forming rigid members" (Krafcik et al.; Column 9, Lines 57).

Response to Arguments

Applicant's arguments with respect to claims 1 and 3 have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's arguments, the applicant alleges that the claimed device does not include an insulating or dielectric layer. However, the Tang et al. reference teaches "eventually a voltage level is required that cannot be conveniently supplied by the EL device driving circuitry or which produces a field gradient (volts/cm) exceeding the dielectric breakdown strength of the layers separating the electrodes, resulting in a catastrophic failure of the EL device" (Tang et al.; Column 3, Line 65–Column 4, Line 2) so "the organic luminescent medium performs is to provide a dielectric barrier to prevent shorting of the electrodes on electrical biasing of the EL device" (Tang et al.; Column 39, Lines 50-68). Hay et al. (US Patent 5,697,322) teaches that "A thick-film EL lamp is essentially a capacitor having a dielectric layer between two conductive electrodes, one of which is transparent" (Column 1, Lines 35-47).

Krafcik et al. teaches "Portions of conductive traces 36 that are not connection points to conductive pads 41a of lamps 40 are generally covered with a dielectric layer to provide electrical isolation, reduce silver migration, and to provide moisture protection" (Column 5, Lines 35-57). Since the applicant does not address the use or application of an insulating or dielectric layer in the original specification, it is unclear as to how or if the device could operate without one.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hay et al. (US Patent 5,697,322) teaches a thick-film EL lamp that is a dial plate and is essentially a capacitor having a dielectric layer between two conductive electrodes, Ozaki et al. (US Patent 6,621,471) teaches an EL lamp for a dial plate of an instrument panel, and Cok (US Patent 6,787,990) teaches an EL lamp with a substrate, first electrode, EL layer, and second electrode.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Makiya whose telephone number is (571) 272-2273.

The examiner can normally be reached on Monday-Friday 7:30am - 4:00pm (ET).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong-Suk (James) Lee can be reached on (571) 272-7044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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DJM 10/28/2007

JONG-SUK (JAMES) LEE SUPERVISORY PATENT EXAMINER